Analysis & Quality Control

Analysis and Quality Control (QC) play a critical role in pharma and biopharma production. Throughout every stage of the drug development process they ensure that all manufactured products meet the required standards and are of the highest quality.

The Fisher Scientific channel is here to support you by bringing together products and services for your analytical and microbiological needs.

Trust in us to help you **Plan. Prepare.** Protect.

www.eu.fishersci.com/go/analysis-qc

fisher scientific
part of Thermo Fisher Scientific

Plan. Prepare. Protect.

Click to Start

Rely on our Analysis and QC portfolio at every stage of your biologics workflow

Icon Key

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Analytical Quality Control

- Syringe Filters for Analytical Sample Preparation
- Liquid Handling Systems for Sample Transfers
- Water Purification Systems for Type 1 Ultra-Pure Water
- Lab Refrigerators and Freezers for Sample Protection and Sustainability
- pH Meters for Electrochemical Analysis
- Solvents for Liquid and Gas Chromatography
- Vials and Closures for Liquid Chromatography
- Glass Bottles for Long-Term Storage
- Glass Bottles for Production and Packaging
- Gloves for Protection, Compliance and Comfort

Microbial Quality Control

Plan. Prepare. Protect.

Analytical Quality Control

Syringe Filters for Analytical Sample Preparation

Helping you select the correct syringe filter for your application

Pall offers a broad range of analytical syringe filters to protect your instruments and ensure the integrity of your results. They select the highest-grade materials and perform rigorous extraction methods to eliminate the occurrence of undesired artifacts, with filters certified for HPLC, UHPLC, Mass Spectrometry and Ion Chromatography.

- Pall's Acrodisc One PSF syringe filters containing 0.45µm **(for HPLC)** or 0.2µm **(for UHPLC)** wwPTFE membranes are ideal for drug studies such as dissolution testing as they are low in protein and API binding. The wwPTFE membrane is chemically compatible with a wide variety of common solvents and is suitable for use in both aqueous and organic applications.
- Pall's IC Acrodisc syringe filters have been optimized for **Ion Chromatography** sample preparation applications. Available in both 13mm and 25mm formats, the syringe filters contain a hydrophilic polyethersulfone (PES) membrane that has undergone several washing steps ensuring the product has low conductivity detectable extractables.

HPLC/UHPLC

Pall Acrodisc One™ PSF Syringe Filters with wwPTFE Membrane

Ion Chromatography

Pall Acrodisc™ Syringe Filters for Ion Chromatography (IC)

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Analytical Quality Control

Liquid Handling Systems for Sample Transfers

thermo scientific

Speed up sample transfer time and reduce repetition

In liquid handling, it is a challenge to ensure a quality seal in daily pipetting. The solution to this problem, and the perfect addition to any lab, is Thermo Scientific™ ClipTip™ pipetting systems. The pipetting systems locks tips firmly in place so they will not loosen or leak, regardless of application pressure. This system helps enable consistent and reproducible pipetting from user to user leading to higher-quality results and more efficient research - a critical requirement for any QC lab.

- You can save up to 80% of your time when transferring samples from microcentrifuge tubes to 96-well plates using the Thermo Scientific™ E1-ClipTip™ Equalizer Pipetting System
- Adjustable tip spacing allows you to set the distance between tips simply by sliding the scale to expand and contract to your desired setting
- The unique equalizer window links the tip spacing scale to the particular application. This means fewer repetitions for multiple applications
- Choose from single channel, 8 to16 multichannel, or 6 to12 delete adjustable tip spacing multichannel pipettes within the volume range of 0.5 to1250µL based on your application and consumables type
- Complete the system with ClipTip™ tips

Multichannel Pipettes

Thermo Scientific™ E1-ClipTip™ Multichannel Equalizer Pipettes

Pipette Tips

Thermo Scientific™ ClipTip™ Filtered Pipette Tips

Discover the full range of Liquid Handling Solutions from Thermo Scientific™

Learn More

Plan. Prepare. Protect.

Analytical Quality Control

Water Purification Systems for Type 1 Ultra-Pure Water

thermo scientific

For your most sensitive and critical laboratory applications

Advances in analytical instrumentation like chromatography and mass spectrometry used in pharmaceutical and biotechnology research have increased the sensitivity of detection for trace level organics. This can involve sensitivities in the sub-ppb (parts per billion) or even ppt (parts per trillion) range. Thermo Scientific™ Barnstead™ Water Purification Systems enable you to overcome daily reproducibility issues in chromatography and mass spectrometry through the production of high quality Type 1 ultra-pure water.

- Engineered to remove common water impurities such as suspended particles, colloids, inorganic ions, dissolved organics, dissolved gases, microorganisms, pyrogens and viruses, and nucleases

Applications include:

- ✓ Cell and tissue culture
- ✓ Buffer and media preparation
- ✓ PCR, DNA sequencing
- ✓ Electrophoresis
- ✓ HPLC
- ✓ GC, GC-MS, ICP-MS, AA
- ✓ TOC measurements, IC
- ✓ Cleaning and rinsing certain equipment

Smart2Pure™

Thermo Scientific™ Barnstead™ Smart2Pure™ Water Purification System

GenPure™

Thermo Scientific™ Barnstead™ GenPure™ Water Purification System

MicroPURE™

Thermo Scientific™ Barnstead™ MicroPURE™ Water Purification Sytem

Plan. Prepare. Protect.

Analytical Quality Control

Lab Refrigerators and Freezers for Sample Protection and Sustainability

thermo scientific

For storage that adapts to you and your environment

Temperature variation can have an impact on the viability and efficiency of vaccines, medication, reagents and other temperature-sensitive materials. These variations can shorten product shelf life, degrade enzymes and reduce vaccine effectiveness. Thermo Scientific™ TSX Series Ultra-Low Freezers and the high performance refrigerators and freezers ranges are designed-with features that support sample protection and sustainability.

- Variable-speed compressor technology (V-Drive) is designed to provide temperature uniformity that continually adapts to the lab or clinical environment, offering significant energy savings without compromising protection
- Each product has an ACT Environmental Impact Factor Label which provides clear, third-party verified information about the environmental impact of laboratory products
- GMP Clean Room Class A / ISO 6 (ISO EN 14644-1) compatible with appropriate pre-install preparation
- Refrigerator range available in either glass or solid doors, and as single or double door configurations
- All TSX Series freezers are manufactured in a zero-waste facility and are built with natural refrigerants and water-blown foam insulation, compliant with the European Union's F-Gas compliance and other sustainability standards
- TSX Series Ultra-Low Freezers are compatible with most racking systems including a full range of Thermo Scientific™ racks for boxes, microplates, Thermo Scientific™ Matrix™ and Nunc CryoBank™ tubes

2° to 8°C

Thermo Scientific™ TSX Series High-Performance Lab Refrigerators

-30°C

Thermo Scientific™ TSX Series High Performance Auto-Defrost Freezers

-20°C

Thermo Scientific™ TSX Series High Performance Manual-Defrost Freezers

-80°C & -40°C

Thermo Scientific™ TSX Series Ultra-Low Freezers

Plan. Prepare. Protect.

Analytical Quality Control

pH Meters for Electrochemical Analysis

thermo scientific

Meet your most challenging applications for pH, mV, ORP and temperature

Monitoring and controlling pH is critical to many biopharmaceutical manufacturing processes. In upstream applications – cell cultivation, cell culture and cell harvest - extracellular pH must be optimized and controlled as it affects cell physiology, protein expression and quality, and cell differentiation. In downstream applications – clarification, purification and concentration - pH (as well as ionic strength) is a key property within the buffered mobile phase that has a critical impact on product recovery and purity. In addition, pH must be carefully monitored during the formulation process prior to fill/finish operations.

- Thermo Scientific™ Orion™ Versa Star Pro™ benchtop meters offer interchangeable measurement modules that allow multiple users to customize four separate channels to meet their specific requirements
- Uniformly mix solutions using up to two meter-controlled stirrer probes that are easy to position and can be quickly rinsed between samples
- Obtain reliable, fast results with auto-ranging conductivity values and extensive temperature compensation options
- Complete the system with Thermo Scientific™ Orion™ PerpHecT™ ROSS™ Combination pH Micro Electrode

pH Meter

Thermo Scientific™ Orion™ Versa Star Pro™ Conductivity Benchtop Meter

pH Electrode

Thermo Scientific™ Orion™ PerpHecT™ ROSS™ Combination pH Micro Electrode

Plan. Prepare. Protect.

Analytical Quality Control

Solvents for Liquid and Gas Chromatography

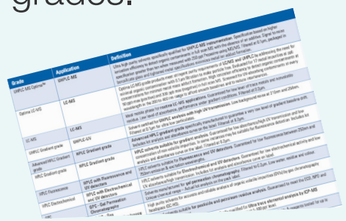
Choice and convenience

In the pharmaceutical industry, all manufactured products need to be of the highest quality to ensure the least risk to patients. To guarantee that goods pass certain standards, researchers, manufacturers and developers use liquid chromatography (as well as other analytical techniques), during the development process.

The Fisher Scientific channel offers choice and convenience through its portfolio of chromatography solvents and columns.

- **Fisher Chemical** offers of a range chromatography solvents from HPLC to UHPLC-MS applications for routine and quality control analysis. Fisher Chemical can also tailor-make solvents to meet the specifications you need whatever your application. A variety of packaging solutions are available including stainless steel returnable drums. All solvents are made to the original specifications that guarantee exceptional purity and lot-to-lot consistency
- **Thermo Scientific** ultra-high-purity solvents are designed to deliver the highest sensitivity, ensure low formation of metal ion adducts, and improve peak profiles
- **Honeywell Chromasolv™** solvents and **Honeywell LabReady™** solvent blends are expertly manufactured with the purity and consistency required for liquid chromatography (HPLC, LC-MS, UHPLC) to ensure your analysis is in the safest hands. They are available in various bottle sizes from 100mL up to 4L and returnable containers from small scale up to 1000L for direct connection to chromatography instrumentation or setup in central storage locations with a solvent line to the lab.
- Also available from **Thermo Scientific** is a range of analytical HPLC columns designed to detect, characterize and quantify structural variants and modifications in proteins, mAbs therapeutics and other biomolecules

Fisher Chemical grades.



Learn More

Fisher Chemical

Fisher Chemical HPLC to UHPLC-MS

Thermo Scientific

Thermo Scientific UHLPC/MS Solvents

Honeywell

Honeywell Chromatography Solvents, Reagents and Standards

Thermo Scientific

HPLC columns

Plan. Prepare. Protect.

Analytical Quality Control

Vials and Closures for Liquid Chromatography

fisherbrand

thermo scientific

Designed for every HPLC, LC/MS, GC, GC/MS instrument, application and budget

The Fisher Scientific channel offers a large portfolio of chromatography consumables. Chromatography vials and closures are a critical part of your analytical workflow so it is important that you have the confidence that Thermo Scientific™ and Fisherbrand™ vials are designed to meet your high standards.

- **Thermo Scientific™ SureSTART ™** collection of vials, caps, inserts, and autosampler well plates and mats.
  - ✓ Come with the lowest levels of extractables and leachables
  - ✓ Made from glass that has the lowest compound adsorption
  - ✓ Highest level of standards and certification available in the marketplace to provide you with highly reproducible data
  - ✓ Organised into three performance levels
    - * Performance Level 1: Everyday applications; choose these for the cost-effective choice
    - * Performance Level 2: High throughput applications; choose these when robustness and reproducibility are key
    - * Performance Level 3: High performance; choose these when sensitivity is a must
- **Fisherbrand™** range of chromatography vials and closures is extensive.
  - ✓ Designed to provide you with the best fit for your applications, sample type and autosampler mode
  - ✓ Fulfill strict requirements regarding inertness and cleanliness such that contamination is minimised and analytical results are not compromised

SureSTART Video

Learn More

SureSTART Selection Guide

Learn More

Thermo Scientific™ SureSTART™

Thermo Scientific™ SureSTART™ Vials and Closures

Fisherbrand

Fisherbrand Chromatography Vials and Closures

Plan. Prepare. Protect.

Analytical Quality Control

Glass Bottles for Long-Term Storage

DWK LIFE SCIENCES
DURAN WHEATON KIMBLE

From long-term storage through to the most demanding applications in the pharmaceutical industry

DURAN™ Original GL laboratory bottles are an essential in every laboratory. DURAN™ borosilicate 3.3 glass is notable for its highly consistent, reproducible quality. It possesses very high chemical resistance, inert behavior, transparency, a high usage temperature, minimal thermal expansion and a resulting high resistance to thermal shock. It also conforms to the requirements of a USP/EP/JP Type 1 neutral glass suitable for use by the pharmaceutical industry.

- Retrace code and certificate for manufacturing lot traceability
- Useful manufacturing scale-up capacity options: 10mL to 25L
- Amber glass meets UV protection EP 3.2.1 and USP (Spectral Transmission) requirements

Clear Bottles

DWK Life Sciences DURAN™ Original Laboratory Bottles, Clear

Amber Bottles

DWK Life Sciences DURAN™ Original Laboratory Bottles, Amber

Plan. Prepare. Protect.

Analytical Quality Control

Glass Bottles for Production and Packaging

DWK LIFE SCIENCES
DURAN WHEATON KIMBLE

Proven for pharmaceutical production

Manufacturing and primary packaging of pharmaceutical substances and vaccines are extensively controlled and monitored with the highest demands on the quality of each product in this process.

The DURAN™ PURE product portfolio is a range of high-quality glass bottles and plastic closures developed for the requirements of GMP manufacturing in the pharmaceutical and biotech industry.

All bottles are closed with protective covers which are assembled onto the bottles directly at the manufacturing line. This prevents contamination of the glass surface inside the bottles during storage and transport. They are available in sizes ranging from 25mL to 20L for neck sizes GL 25 and GL 45, and from 500mL to 20L for the wide neck design GLS 80™.

- DURAN™ PURE are part of the SureTRACE program so come with full traceability (change notifications and associated certificates) and an enhanced quality guarantee
- A wide range of amber bottles is available for light sensitive biopharma products

Clear Bottles

DWK Life Sciences DURAN™ PURE Clear Glass Bottles

Amber Bottles

DWK Life Sciences DURAN™ PURE Amber Glass Bottles

SureTRACE
Featured Product

Learn More

Plan. Prepare. Protect.

Analytical Quality Control

Gloves for Protection, Compliance and Comfort

Ideal for production facilities

Disposable protective gloves are used to protect laboratory personnel when handling chemicals, solvents or any other hazardous materials. The type and level of risk personnel may be exposed to must be assessed, and according to this, the appropriate type of glove needs to be selected. Below you can find a selection of gloves covering protection requirements from low risk up to high demanding laboratory applications.

- Super soft, formulated without vulcanization accelerators, **Kimtech™ Opal™ nitrile gloves** will protect you against fungi, bacteria, viruses and light chemical splashes. The right choice for repetitive tasks such as pipetting. Food contact approved – Cat III Type B (KPT) according to PPE Regulation (EU)2016/425
- **Kimtech™ Purple Nitrile™ gloves** keep hands comfortable and protected against a wide spectrum of chemical splashes or viruses. They are suitable for many different lab tasks including higher-risk applications. The gloves are designated as Cat III Type B (JKT) according to PPE Regulation (EU) 2016/425, and are food contact approved.
- **Kimtech™ Purple Nitrile™ gloves** keep hands comfortable and protected while ensuring that research applications can be carried out contamination-free. The gloves are designated as PPE Cat III according to Regulation (EU) 2016/425, and are ideal for use in higher-risk applications as well as being food contact approved
- Unique combination of comfort, protection and precision, **Kimtech™ Prizm™ gloves** will offer you the best protection against chemical splashes. Ultra fingertip grip is designed to handle contaminated pipette tips or syringe filters with maximum safety. Cat III Type A (JKLMPT) certified according to PPE Regulation (EU) 2016/425

Opal™ Nitrile Gloves

Kimberly-Clark™ Kimtech™ Opal™ Nitrile Gloves

Purple Nitrile Gloves

Kimberly-Clark™ Kimtech™ Purple Nitrile™ Ambidextrous Gloves

Prizm™ Gloves

Kimberly-Clark™ Kimtech™ Prizm™ Multi Layered Gloves, 24 cm, Ambidextrous, Dark Violet/Dark Magenta

Plan. Prepare. Protect.

Rely on our Analysis and QC portfolio at every stage of your biologics workflow

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Analytical Quality Control

Microbial Quality Control

- Disposable Filter Funnels for Sterility Testing
- Liquid Handling for Sample Transfers
- Biological Safety Cabinets for Containment
- Centrifuges for Sample Processing
- Refrigerated Incubators for Temperature Control
- Quanti-Cult Plus™ Kits for Microbial Verification
- Triple Wrap Plates for Environmental Monitoring
- Swabs for Environmental Monitoring
- Bottles for Water Sampling

Plan. Prepare. Protect.

Microbial Quality Control

Disposable Filter Funnels for Sterility Testing

Convenient and economical choice for sterility testing within isolators

Pall's MicroFunnel™ ST filter funnels offer an alternative to costly closed-system sterility testing when using an isolator or containment suite. They are available in gamma-irradiated, double-bagged packaging. This packaging saves valuable time during entry into cleanrooms and hoods, with only one surface to spray down and wipe. Each lot is QC tested and certified, with certificates available.

Easy to use: Unique squeeze separation of cylinder from base allows easy access to membrane for simple removal for culturing on agar or broth.

Meets requirements of U.S., Japan, and European Pharmacopeias for sterility testing.

- 0.45µm **GN-6 Metricel™** (mixed cellulose esters) or low binding **Supor™** (hydrophilic polyethersulfone) membranes provide a choice for sterility testing applications in the pharmaceutical industry
  - ✓ GN-6 Metricel™ membrane meets the stringent microbial regulations
  - ✓ Supor™ membrane has low drug and protein binding characteristics and is ideal for testing antibiotic solutions
- 0.2µm membranes is used to remove or capture bacteria and sterilize
- 0.45µm membranes are used to remove larger bacteria or particulate, mainly for water quality or QC testing

Supor™ Membrane

Pall MicroFunnel™ ST Filter Funnel with Supor™ Membrane

GN-6 Metricel™ Membrane

Pall MicroFunnel™ ST Filter Funnel with GN-6 Metricel™ Membrane

Plan. Prepare. Protect.

Microbial Quality Control

Liquid Handling for Sample Transfers

thermo scientific

Thermo Scientific™ Finnpipette™ F2 Pipette: durable and reliable for long-term intensive use

In many QC laboratory environments, chemical resistance and physical durability are requirements for a pipette; it must be able to endure powerful, decontamination methods and withstand a range of harsh chemicals. Thermo Scientific™ Finnpipette™ F2 has proven to be reliable for long-term intensive use, especially in environments where contaminants are a daily risk.

- Decontamination of the Finnpipette F2 is simple as there is no need to disassemble the pipette for autoclaving, minimizing disruption and downtime
- Finnpipette F2 contains tough PVDF components that stand up to harsh chemicals and the damaging effects of UV light
- Maintenance is easy – simply detach the tip cone for efficient daily maintenance or decontamination when using an autoclave
- Colour coded based on volume – helping you match the correct tip
- Wide selection of Finntip™ Pipette Tips available enabling optimal performance, precision and accuracy

Multi-Channel

Thermo Scientific™ Finnpipette™ F2 Multichannel Pipettes

Single-Channel – Variable Volume

Thermo Scientific™ Finnpipette™ F2 Variable Volume Pipettes

Single-Channel – Fixed Volume

Thermo Scientific™ Finnpipette™ F2 Fixed Volume Pipettes

Finnpipette F2 and Finntip Pipette Tips Selection Guide

Learn More

Plan. Prepare. Protect.

Microbial Quality Control

Biological Safety Cabinets for Containment

thermo scientific

Biological Safety Cabinets for Containment

A Biological Safety Cabinet's (BSCs) primary function is to provide you cleanliness and containment. Thermo Scientific™ Biological Safety Cabinets offer the certified performance and protection that stays with you every day, and are designed for comfort and convenience. Featuring Thermo Scientific™ SmartFlow™ technology, the dual-DC motors automatically balance the cabinet inflow and downflow air velocities in real time – even as the filters load. Furthermore, the Digital Airflow Verification (DAVe) alarm signals any out-of-spec conditions, for added assurance.

- H14 HEPA filters remove airborne contaminants
- Fully compliant with the EN 12469 safety standard as independently tested and certified by TUV Nord
- SmartPort organizes tubing and cables
- Units feature 60% less energy consumption and heat output
- Ergonomic solutions to adjust the cabinet to the user
- Easy cleaning with full access to the cabinet interior without any tools
- Embedded connectivity for data monitoring *
- Factory Acceptance Test (FAT) documentation binder **

MSC-Advantage™

Thermo Scientific™ MSC-Advantage™ Class II Biological Safety Cabinets

Herasafe™ 2050

Thermo Scientific™ Herasafe™ 2025 Class II Biological Safety Cabinet

Herasafe™ 2030i

Thermo Scientific™ Herasafe™ 2030i Biological Safety Cabinets

* Herasafe 2030i ** CTS series models

Plan. Prepare. Protect.

Microbial Quality Control

Centrifuges for Sample Processing

thermo scientific

Designed for solid performance and consistent results

Thermo Scientific centrifuges are designed to offer improved performance, reliability, consistency and safety.

The **Multifuge™ X1 Pro Series** features new industrial design with improved ergonomics for ease of use and touch screen capabilities to help save you time. This centrifuge series can handle a range of general-purpose processing, including microbiology as well as being the ideal centrifuge for cell culture, microplate, bioproduction, and blood separation applications. It is also energy efficient, offering up to 40% energy consumption savings on industry standard protocols, such as standard blood separation or conical tubes processing.

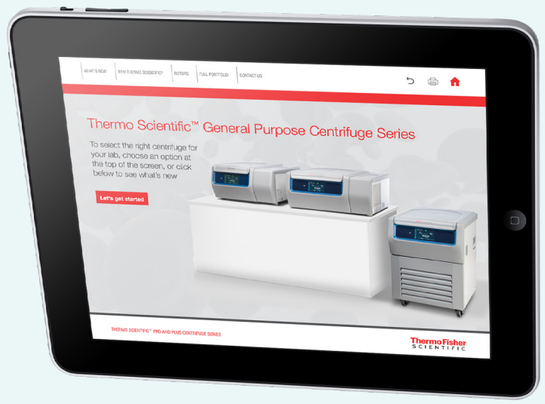
- The Auto-Lock™ rotor exchange provides flexibility to switch between applications and evolve with the changing needs of your laboratory
- Easy rotor exchange simplifies cleaning and disinfecting procedures
- Fiberlite™ Rotor/lid combinations and liquid containment annulus offer features that protect the user, the centrifuge and the samples from hazardous contamination
- ClickSeal™ biocontainment lids provide glove-friendly, one-handed open/close capability and provides a simple snap system eliminating multi-turn screw caps and complicated high pressure clips. System is certified by CAMR™ in Porton Down, UK
- Compliance with most-recent applicable regulatory and safety standards
- Broad range of rotors and adapters

Multifuge X1 Pro Series

Thermo Scientific™ Multifuge X1 Pro Centrifuge Series

There is a rotor available for nearly every application to solve your swinging buckets and fixed angle needs

Learn More



Plan. Prepare. Protect.

Microbial Quality Control

Refrigerated Incubators for Temperature Control

thermo scientific

Energy efficient, precise temperature control, reliable temperature environment

Thermo Scientific™ Heratherm™ refrigerated incubators are designed with energy efficiency in mind. For incubation temperatures close to ambient they consume less energy than conventional, compressor-based units. Likewise, the heat output to the room is lower, which reduces the heating, ventilation, and air conditioning (HVAC) burden compared to that of conventional technology.

The Heratherm™ refrigerated incubators operate on Peltier technology which, in addition to saving energy, also allows precise temperature set points, all without harmful chlorofluorocarbon or hydrofluorocarbon refrigerants.

- Use up to 84% less energy than traditional compressor-based models
- Temperature range +5°C to +70°C
- Outstanding temperature uniformity and stability to keep the samples in a safe environment - uniformity as good as ±0.3°C (at +25°C), and stability as tight as ±0.1°C
- Stainless steel interior (1.4301/ASTM 304) and rounded corners for easy cleaning - this helps reduce any possible contamination, which is a key benefit especially when using these for incubation
- Safe containment with automatic over-temperature alarm
- Available as floor-standing and benchtop models
- Perfect choice for a variety of applications, including microbiological, fungal and yeast studies, cell culture, shelf-life testing, wastewater sample testing, storage of vaccines, reagents, and antibodies, and crystallization

Refrigerated Incubators

Thermo Scientific™ Heratherm™ Refrigerated Incubators

Plan. Prepare. Protect.

Microbial Quality Control

Thermo Scientific™ Quanti-Cult Plus™ Kits for Microbial Verification

thermo scientific

Ensuring safety with simplicity

In the pharmaceutical industry, regulatory compliance is paramount. When it comes to pharmaceutical quality control, growth promotion, method suitability, microbial enumeration and microbial absence testing, robust, validated protocols are key in order to ensure safe release of high-performing pharmaceutical products.

- Compliant with pharmacopeia requirements, Quanti-Cult™ and Quanti-Cult Plus™ kits provide specific, reproducible numbers of viable microorganisms with <100 colony forming units (cfu) per inoculum with full range of pharmacopeia referred strains
- Complete traceability with fully characterized ATCC™ Licensed Derivative strains. Providing cultures with passage number as low as passage 2 upon first culturing brings confidence in authenticity and purity of your strains
- Zero organism handling: reduce the risk of contamination and infection
- Accurate and convenient documentation and lot traceability with peel-off, transferable labels, removing the need for manual tracking and improving efficiency

Pseudomonas aeruginosa

Thermo Scientific™ Quanti-Cult Plus™ Pseudomonas Aeruginosa ATCC™ 9027™

Bacillus subtilis

Thermo Scientific™ Quanti-Cult Plus™ Bacillus Subtilis ATCC™ 6633™

Candida albicans

Thermo Scientific™ Quanti-Cult Plus™ Candida Albicans ATCC™ 10231™

Aspergillus brasiliensis

Thermo Scientific™ Quanti-Cult Plus™ Aspergillus Brasiliensis ATCC™ 16404™

Plan. Prepare. Protect.

Microbial Quality Control

Thermo Scientific™ Triple Wrap Plates for Environmental Monitoring

thermo scientific

Complete cleanroom and isolator confidence

Designed for your most regulated environments, Thermo Scientific™ Triple Wrapped Irradiated Plates feature the latest in quality-assurance technology. The plates are irradiated and triple-wrapped in transparent packaging allowing them to be easily transported through each step of the production facility without the risk of introducing contaminants.

- Containing Tryptone Soya Agar, a general purpose medium, available with or without neutralisers
- Includes an exposure indicator to reduce contamination risk in Vapour-phase Hydrogen Peroxide (VHP) sterilisation procedures
- 90 mm deep fill plates for passive and active air sampling applications
- 55 mm contact plates for microbiological testing of surfaces and personnel
- All products undergo quantitative quality control testing, using a low-dose inoculum to ensure optimum performance

90 mm and 55 mm Plates

Thermo Scientific™ Triple Wrap Sterile Pack with VHP Indicator Tryptone Soya Agar with Inhibitor and 2D Barcode with Neutralizers

90 mm Plates

Thermo Scientific™ Triple Wrap Sterile Pack with VHP Indicator Tryptone Soya Agar w/2D Barcode

90 mm and 55 mm Plates

Thermo Scientific™ Triple Wrap Sterile Pack with VHP Indicator Tryptone Soya Agar with Lecithin, Polysorbate 80, Sodium Thiosulphate, L-Histidine

Plan. Prepare. Protect.

Microbial Quality Control

Swabs for Environmental Monitoring

High quality products for validation of the cleaning process

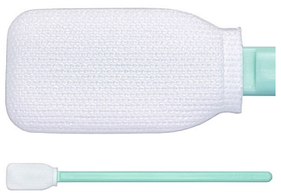
Monitor production areas for microbial presence as part of meeting GMP's and other regulations. Texwipe swabs are cleanroom manufactured, providing low levels of Non-Volatile Residues (NVRs) and ions, and made to exacting and consistent tolerances using high-precision automated processes. They are lot coded for traceability and quality control, and packaged in a silicone-free and amide-free bag.

The Alpha™ Large Sterile Cleanroom Swabs and Sterile Spun Polyester Cleanroom Swabs are individually packaged in peel-apart sleeve to ensure sterility at point-of-use and each sleeve is lot coded and has an expiration date for inventory control. The Sterile Dry Collection and Transport System features a tamper-evident seal that ensures integrity at point-of-use.

All swabs are gamma-irradiated to a Sterility Assurance Level of 10^{-6} and sterile validated according to AAMI Guidelines.

- **Texwipe Alpha™ Large Sterile Cleanroom Swabs** feature a double layer of polyester knit fabric for enhanced absorbency. They have excellent chemical compatibility with a variety of solutions
- **Texwipe Sterile Spun Polyester Cleanroom Swabs** are constructed using 100% USP-grade polyester, securely bonded to the polystyrene handle by a water-based adhesive
- **Texwipe Sterile Dry Collection and Transport System** is constructed using 100% USP-grade spun cotton, securely bonded to a flexible polystyrene handle. The swab is placed into a 1 mm-thick medical-grade polypropylene tube with a seamless molded round-bottom design.

Alpha™ Large Sterile Cleanroom Swab



Texwipe Sterile Polyester Large Swab

Sterile Spun Polyester Cleanroom Swab

Texwipe™ Sterile Polystyrene Swabs

Sterile Dry Collection and Transport System

Texwipe™ Sterile Dry Collection and Transport System

Plan. Prepare. Protect.

Microbial Quality Control

Bottles for Water Sampling

CORNING

Sterile bottles for testing water for pharmaceutical use

Water is the most commonly used material by the pharmaceutical industry. It is used as an excipient ingredient in drug products, for the cleaning of processing equipment, and in the testing of drug products and related materials. In order to determine the suitability of water for whatever pharmaceutical application it is intended, it must be tested for the presence of contaminants.

- Break-resistant and translucent high-density polyethylene (HDPE)
- HDPE cap
- Large neck opening provides easier access for liquid transfer
- Tamper-evident label
- Sterile
- Leak-proof
- Applications
  - ✓ Environmental and Water Testing
  - ✓ Food and Beverage Testing
  - ✓ Pharmaceutical Quality Control
  - ✓ Life Sciences

HDPE Bottles

Corning Gosselin Water Sampling Square HDPE Bottle, 1L, 20 mg/L Na Thiosulfate, 55mm Tamper-evident Cap, Sterile

Plan. Prepare. Protect.

Find the perfect chemicals for your analytical application

Grade	Application	Definition
UHPLC-MS Optima™	UHPLC-MS	Ultra high-purity solvents specifically qualified for UHPLC-MS instrumentation. Specification based on higher ionization efficiency to detect organic contaminants in full scan MS with the absence of an additive. Signal to noise specification greater than ten when measured with 250 ppt Propazine using MS/MS. Filtered at 0.1µm, packaged in borosilicate glass and tightened metal specifications minimizes metal ion adduct formation.
Optima LC-MS	LC-MS	Optima LC-MS grade products meet stringent purity requirements of LC/MS and UHPLC by addressing the need for minimal organic contamination with 0.1µm filtration to make particle free. Evaluated for 17 metal impurities at ppb concentrations for minimal metal mass adduct formation. High ionization efficiency to detect organic contaminants at 50 ppb max (positive) and 300 ppb max (negative) in full scan MS. Screened for UV-absorbing contaminants at every wavelength in the 200 to 400nm range to afford smooth baselines and to reduce interferences.
LC-MS	LC-MS	Ideal mobile phase for routine LC-MS applications. Guaranteed for low level of trace metals and non-volatile residue. Low level of absorbance, performance under gradient conditions. Filtered at 0.2µm.
UHPLC Gradient grade	UHPLC-UV	Solvent certified for UHPLC analysis with high UV transmission. Low background noise at 210nm and 254nm. Filtered at 0.1µm for ultra low particulates.
Advanced HPLC Gradient grade	HPLC Gradient grade	Advanced HPLC gradient grade specifically manufactured to guarantee a very low level of gradient baseline drift. Includes lot analysis and absorbance curve on the label. Filtered at 0.2µm.
HPLC Gradient grade	HPLC Gradient grade	HPLC solvents suitable for gradient analysis. Guaranteed for low absorbance/high UV transmission and low concentration of non-volatile impurities. In some instances may be suitable for fluorescence detection. Includes lot analysis and absorbance curve on the label. Filtered at 0.2µm.
HPLC Fluorescence	HPLC with Fluorescence and UV detectors	HPLC solvents suitable for Fluorescence and UV detectors. Guaranteed for low fluorescence between 250nm and 750nm emission and excitation wavelengths.
HPLC Electrochemical	HPLC with Electrochemical and UV detectors	HPLC solvents suitable for Electrochemical and UV detectors. Guaranteed for low electrochemical activity and low UV absorbance/high transmission. Includes lot analysis and absorbance curve on label.
GPC	GPC - Gel Permeation Chromatography	Solvents manufactured for gel permeation chromatography. Filtered to 0.2µm. Low water, residue and colour. Unique chemical range – Actual lot analysis on the pack label.
GC Headspace	GC-HS - Gas Chromatography Headspace	High purity solvents for accurate and reliable analysis of organic volatile impurities (OVIs) by gas chromatography headspace (GC-HS).
Distol	GC - Gas Chromatography	Range of solvents suitable for pesticide and petroleum residue analysis. Guaranteed to meet the ECD, NPD and FID detectors requirement.
Optima Grade	ICP-MS	Highest purity acids, bases and water specifically qualified for ultra trace elemental analysis by ICP-MS instrument. Ultra-pure quality tested for up to 65 parameters at 1-100 ppt level.
Trace Metal™ Grade	ICP	Trace Metal grade qualified for trace elemental analysis by ICP instrument. Acids and reagents tested for up to 65 parameters at ppb levels.
Primar Plus™ Grade	AAS	Primar Plus grade suitable for trace elemental analysis by AAS instrument. Acids and reagents are tested for up to 40 parameters at 1 to 10 ppb level.
For Analysis	General analytical applications	Certified reagents for analytical applications. Tested for up to 18 guaranteed parameters. Actual lot analysis on the pack label.
For Analysis Conform Eur.Ph.	General analytical applications	Certified reagents for analytical application meeting the Eur.Ph requirement. Tested for up to 18 guaranteed parameters. Actual lot analysis on the pack label.
Specificied Laboratory Reagents (SLR)	Laboratory applications	Specified Laboratory Reagents for general laboratory applications. Extra pure grade tested for up to 13 parameters.
Technical	General use	For general use in the laboratory.
Buffers	pH measurement	Buffer NIST Standard solutions certified for pH measurement. Ready to use, with an accuracy factor of ±0.02 pH at 20°C. Also available as concentrates, packaged in ampules.
Volumetric solution	Volumetrics	Standard solutions for volumetric analysis. Accuracy factor up to 0.999 to 1.001 NIST traceability. Ready to use.
Solutrate	Volumetrics	Concentrated standard solutions for volumetric analysis. NIST traceability. Supplied in singles or pack of six sealed ampules.
Aqualine™	Karl Fischer titration	Karl Fischer reagents for the determination of moisture. Volumetric and coulometric reagents and standards. Pyridine free, rapid titration and a stable end-point. Supplied in single packs or in ampules.

Plan. Prepare. Protect.